AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A method comprising:

receiving a request for a computational resource required to begin computing a first task, the request being provided by a first portion of a network and including a requirement corresponding to computation of the first task;

matching the requirement with specifications of computational resources existing in the network;

match the requirement, the matched computational resources being selected from the existing computational resources;

in a network, responding to [[a]] the request for a computational resource to begin computing a task by sending [[a]] the list of matched computational resources to the first portion of the network, the list including network addresses relating to the matched computational resources;

receiving a selection <u>from the first portion of the network, the selection including</u>

<u>a network address from the list to identify one</u> of [[a]] <u>the matched</u> computational

resource resources for reservation;

requesting reservation of the identified computational resource, wherein a reservation number is sent to the first portion of the network when the requested reservation is successful if the selection of the computational resource is available to

Application No. 10/706,805 Attorney Docket No. 09700.0032-00

SAP Reference No. 2003P00469 US

begin computing the task, reserving the selection and sending a reservation number

for the selection; and

sending the request to begin computing the first task to a different second

matched computational resource included in the list when the requested reservation

fails, wherein the requested reservation fails when the identified computational

resource is portion of the network if computational resources are unavailable to

begin computing the <u>first</u> task.

2. (Cancelled)

3. (Currently Amended) The method of claim 1 wherein sending the reservation

number further comprises reserving the selection identified computational resource

by further comprises assigning the reservation number to the identified

computational resource.

4. (Currently Amended) The method of claim 1 in which wherein sending the

reservation number reserving further comprises:

waiting a predetermined time period for the identified computational resource to

begin computing the first task after the requested reservation is successful and the

identified computational resource is reserved; and

if the predetermined time period is expired and the reserved computational

resource has not begun computing the first task, then freeing the reserved

computational resource for subsequent reservation for computing a second task.

3

- 5. (Currently Amended) The method of claim 1 wherein responding to the request matching the requirement further comprises comparing requirements for computing the <u>first</u> task with <u>the</u> specifications of the available computational resources.
- 6. (Currently Amended) The method of claim 5 further comprising wherein generating [[a]] the list of computational resources by further comprises querying a plurality of portions portion of the network.
- 7. (Currently Amended) A method comprising:

in the network;

in a network, sending, by a first service, a request for a list of one or more computational resources that are available required to begin computing a first task, the request including a requirement corresponding to computation of the first task; responding, by a second service, to the request by collecting information on matching the requirement with specifications of computational resources existing

generating a list of matched computational resources having specifications that match the requirement, the matched computational resources being selected from the existing computational resources;

sending [[a]] the list of available matched computational resources to the first service, the list including network addresses relating to the matched computational resources;

receiving a selected selection from the first service, the selection including a

Application No. 10/706,805 Attorney Docket No. 09700.0032-00

SAP Reference No. 2003P00469 US

network address from the list to identify one of the matched computational resources

resource for reservation;

reserving requesting reservation of the selected identified computational

resource, wherein and sending a reservation number is sent to the first service when

the requested reservation is successful of the selected computational resource if the

selected computational resource is available to begin computing the task; and

sending the request to begin computing the first task to a third service

corresponding to a second matched computational resource in the list when the

requested reservation fails, wherein the requested reservation fails when the

identified computational resource is unavailable to begin computing the first task, to

a third service if the second service has no information on available computational

resources.

8. (Cancelled)

9. (Currently Amended) The method of claim 7 wherein sending the reservation

number further comprises reserving the selected identified computational resource

by further comprises assigning [[a]] the reservation number to the identified

computational resource.

10. (Currently Amended) The method of claim 7 in which wherein sending the

reservation number reserving further comprises:

5

Application No. 10/706,805 Attorney Docket No. 09700.0032-00

SAP Reference No. 2003P00469 US

waiting a predetermined time period for a request for the selected identified computational resource to begin computing the first task, after the reservation is successful and the identified computational resource is reserved; and releasing the selected identified computational resource for subsequent reservation for computing a second task if the predetermined time period is over and the request for the reserved computational resource has not begun computing the first task been received.

- 11. (Currently Amended) The method of claim 7 wherein responding to the request matching the requirement further comprises comparing requirements for computing the <u>first</u> task with <u>the</u> specifications of available computational resources that are described by information accessible to the first service.
- 12. (Original) The method of claim 7 wherein the second service has a stored relation to the first service.
- 13. (Currently Amended) The method of claim 11 wherein the first service executes instructions on a first computer system and [[the]] computational resources managed by the first service comprise a first set of computational resources located on the first computer system.

- 14. (Previously Presented) The method of claim 13 wherein the third service has a stored relation with the first service, the third service executes instructions on a second computer system, and the computational resources that are described by information accessible to the first service further comprise a second set of computational resources that are described by information accessible to the third service.
- 15. (Currently Amended) A network comprising:

a first computer system having a first set of one or more computational resources and configured to execute instructions of a first service; and

a second computer system configured to execute instructions of a second service, the first service configured to:

receive, from the second service, a request for a computational resource required to begin computing a first task, the request including a requirement corresponding to computation of the first task;

match the requirement with specifications of computational resources in the first set;

generate a list of matched computational resources having specifications
that match the requirement, the matched computational resources being selected
from the first set;

respond to [[a]] the request for a list of computational resources to begin computing a task by collecting information on at least the first set of one or more

sending the list of matched computational resources to the second service, the list including network addresses relating to the matched computational resources;

send a list comprising a subset of the first set of the one or more computational resources;

receive a selection <u>from the second service</u>, <u>the selection including a</u>

<u>network address from the list to identify one</u> of [[a]] <u>the matched</u> computational

<u>resource</u> resources for reservation;

request reservation of the identified computational resource, wherein a reservation number is sent to the second service when the requested reservation is successful reserve the selection and send an address of the selection if the selection of the computational resource is available to begin computing the task; and

send the request to [[the]] <u>a</u> second <u>matched</u> service if computational resources resource included in the list when the requested reservation fails, wherein the requested reservation fails when the identified computational resource is [[are]] unavailable to begin computing the <u>first</u> task.

16. (Currently Amended) The network of claim 15 further comprising:

a third computer system having a second set of one or more computational resources and configured to execute instructions of a third service, the third service having [[an]] a stored relation to the first service;

wherein the first service is further configured to collect information on the second set of one or more computational resources and the list further comprises a subset of the second set of the one or more computational resources.

- 17. (Currently Amended) The network of claim 15 wherein the first service is configured to reserve reserving the identified computational resource by assigning the reservation number to the identified computational resource selection further comprises assigning a reservation number.
- 18. (Currently Amended) The network of claim 15 wherein the first service is further configured to:

wait a predetermined time period for the reserved identified computational resource to begin computing the <u>first</u> task, <u>after the reservation is successful and</u> the identified computational resource is reserved; and

if the predetermined time period is over and the reserved computational resource has not begun computing the <u>first</u> task, then free the reserved computational resource for subsequent reservation for computing a second task.

19. (Currently Amended) The network of claim 15 wherein <u>matching the requirement</u> to respond to the request further comprises comparing requirements for computing the <u>first</u> task with specifications of available computational resources from the first and second sets of computational resources.

- 20. (Original) The network of claim 15 wherein the second service has a stored relation to the first service.
- 21. (New) The method of claim 1 wherein the requested reservation is successful when the identified computational resource is available to begin computing the first task.
- 22. (New) The method of claim 7 wherein:

the requested reservation is successful when the identified computational resource is available to begin computing the first task; and the reservation number is sent to the first service by the second service.